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Preliminary List of Fungi and Diseases of Roses  
in the United States

August 15, 1928



BUREAU OF  
PLANT INDUSTRY  
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PRELIMINARY LIST OF FUNGI AND DISEASES OF ROSES IN THE UNITED STATES

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IMPORTANCE OF ROSE PLANT PRODUCTION

Of all the ornamental flowers grown both in greenhouse and garden, the rose seems to be the universal favorite. Large quantities of rose plants are produced in the United States, and many are imported each year. Statistics for the latter appeared in the American Rose Annual (1) for 1927 as follows:

"During the fiscal year ended June 30, 1926, some 28,556 finished rose plants came in under special permits. The inclusive total of such importations since the beginning of the quarantine in 1919 is 110,997.

"Of rose stocks there came during the fiscal year a total of 10,884,920. This was 2,545,395 more than for the previous year or more than 30 per cent of an increase in foreign-grown stocks for roses.

"Of this large total, England supplied 3,994,900, France 1,816,250, and Holland 4,805,470. The largest quantities came to New York City as 3,220,636; to New Jersey 1,110,509, and to Ohio, 1,370,025."

An important rose grower has stated that ten million plants would be a conservative estimate of the number of outside-grown rose plants produced in the United States and that about the same number is grown for greenhouse purposes. The revenue received in New York City alone from the sale of roses is said to average from ten to fifteen million dollars annually.

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(1) Editors Notes: Importation of rose stocks and roses. Amer. Rose Annual for 1927. p. 229.

SCOPE OF LIST

This list comprises the fungi, bacteria, and a few undetermined troubles occurring on the rose which have been reported to the Office of Mycology and Disease Survey, Bureau of Plant Industry. Saprophytic as well as parasitic organisms have been included. The list gives the distribution of the diseases by States, varieties of roses affected where known, and year of first report to the Plant Disease Survey or first date of publication, or date of collection in the case of a specimen. Where available at least one selected literature reference has been cited for each disease. These are not necessarily references of first description but are intended to give readers a starting point in case they wish to look up the literature more fully.

A general request for specimens and other data pertaining to rose diseases which was sent out to collaborators and those interested in roses aided in making the information more complete. During the past two years the writers have done considerable collecting of rose diseases in the District of Columbia and in some of the States, thereby also adding more information to the report. Where specimens are found in the mycological collections they are noted by an asterisk (\*) but this does not mean that they all have been examined by the writers.

LIST OF FUNGI AND DISEASES

Actinonema rosae (Lib.) Fr. - see Diplocarpon rosae Wolf.

Alternaria sp.

Rosa sp., R. hugonis, R. serrulata.

\*Ala. (1875), \*Ga. (1926), \*Me. (1926), \*Mich. (1926), \*Miss. (1926), \*Va. (1923).

Ameris rosicola (Ell. & Ev.) Arth. - see Uromyces rosicola Ell. & Ev.

Apiosporella rhodophila (Sacc.) v. Hoehn., canker. Rehm, H. Ann. Myc. 13: 2. 1915.

Rosa setipoda, \*Md. (1926).

Armillaria mellea (Vahl) Quel., root rot. Sacc. Syll. Fung. 5: 80.  
Rosa sp., Oreg. (1913).

Aspergillus terreus Thom. Thom, Chas. and Margaret B. Church, Amer.  
 Jour. Bot. 5: 85. 1913.  
Rosa sp., \*Va. (1923).

Asteroma rosae Lib. - see Diplocarpon rosae Wolf.

Bacillus amylovorus (Burr.) Trev., blight. Waite, M. B. U. S. D. A.  
 Off. Rec. 4 (31): 5. 1925.  
Rosa sp., by inoculation. Has not been found out of doors.

Bacterium tumefaciens EFS. & Town., crown gall. Smith, E. F. and C. O.  
 Townsend. Science, n.s. 25: 672. 1907.  
Rosa spp., R. manetti, R. rugosa and varieties Golden Emblem and Ophelia  
 Ariz. (1926), \*Calif. (1925), Conn. (1916), \*D. C., Fla. (1923),  
 Ga. (1925), Ill. (1906), \*Ind. (1921), La. (1923), Md. (1909),  
 Mass. (1915), Mich. (1913), Minn. (1913), Miss. (1923), Mo.  
 (1907), N. H. (1916), N. J. (1913), N. Mex. (1916), N. Y.  
 (1906), N. D. (1923), Ohio (1915), \*Pa. (1917), S. C. (1922),  
 Texas (1926), \*Wash. (1915).

Blastocladia tenuis Kanouse. Kanouse, B. B. Am. Jour. Bot. 14: 301.  
 1927.  
Rosa sp., Mich. (1927).

Botryosphaeria ribis Gross. & Dug., cane blight. Grossenbacher, J. G.  
 and B. M. Duggar. New York Agr. Exp. Sta. Bull. 18: 183. 1911.  
Rosa adenosephala, R. banksiopsis, R. bella hyb., R. bella x moyesii,  
R. bracteata, R. caudata, R. l'heritierana, R. moyesii x canina,  
R. multibracteata, R. pratincola, R. rugosa x Victor Hugo, R.  
setipoda hyb., R. suffulta, R. willmottea, R. woodsi, and  
 variety Columbia (pink).  
 \*Md. (1922), \*Va. (1923).

Botrytis sp., cinerea type, bud blight.  
Rosa spp., hybrid teas and perpetuals, and variety Radiance; common  
 on certain white flowered varieties.  
 Calif. (1926), Dela. (1910) \*D. C. (1922), Fla. (1925), Ga. (1925),  
 \*Ind. (1918), Me. (1926), \*Md. (1909), \*Mass. (1916), Mich.  
 (1915), \*Miss. (1923), Mont. (1924), N. J. (1920), N. Y. (1915),  
 Ohio (1913), \*Pa. (1924), \*R. I. (1926), S. C. (1923), Texas  
 (1915), \*Va. (1924), \*Wash. (1916).

Caconema radicicola (Greef) Cobb, root knot. Bessey, U.S. Dept. Agr.,  
 B.P.I. Bull. 217.  
Rosa spp., R. multiflora.  
 Ala. (1905), D. C. (1927), Ga. (1926), Mich. (1920), Nebr. (1905),  
 N. J. (1923), Ohio, Texas (1926), W. Va. (1906).

Cercospora rosicola Pass., leaf spot. Sacc. Syll Fung. 4: 460.

Rosa spp., R. arkansana, R. blanda, R. indica, R. lucida, R. nitida,  
R. nutkana, R. pratincola, R. setigera, R. suffulta, and varieties  
Crimson Rambler and Silver Moon.

\*Ala. (1901), \*Conn. (1902), \*D. C. (1887), \*Fla. (1882), \*Ga. (1915),  
\*Ill. (1886), \*Ind. (1890), \*Iowa (1905), \*Kans. (1888), \*La. (1886),  
\*Me. (1900), \*Mass. (1926), \*Mich. (1923), Minn. (1920), \*Miss. (1916),  
\*Mo. (1887), \*Nebr. (1890), N. J. (1918), \*N. Y. (1913), \*Pa. (1924),  
\*S. C. (1923), \*Tenn. (1926), \*Texas (1908), \*Wash. (1892),  
W. Va. (1910), Wis. (1914).

Cercospora rosicola Pass. var undosa Davis, leaf spot. Davis, J. J.

Trans. Wisconsin Acad. Sci. 20: 405. 1921.

Rosa humilis, Wis. (1922).

Cercospora rosigena Tharp, leaf spot. Tharp, B. C. Mycol. 9: 114. 1917.

Rosa sp., \*Texas (1915).

Cladosporium fuscum Link, leaf spot. Sacc. Syll. Fung. 4: 352.

Rosa sp., Miss. (1906).

Cladosporium sp., leaf spot.

Rosa sp., R. gentiliana, R. hugonis, \*Ind. (1923), \*Md. (1923), \*Minn.  
(1926), \*Miss. (1927).

Comandra umbellata (L.) Nutt. Jour. Agr. Res. 5: 134. 1915.

Rosa blanda, R. canina.

Coniosporium limoniforme Syd. Sydow, H. and F. Sydow. Ann. Mycol. 6:  
484. 1908.

Rosa sp., Utah (1908).

Coniothyrium fuckelii Sacc., cane blight - see Leptosphaeria coniothyrium  
(Fckl.) Sacc.

Coniothyrium rosarum Oke. & Hark., graft canker. Sacc. Syll. Fung. 3: 307.

Rosa spp. and varieties Mrs. Charles Russell and Milady.

Calif. (1884), Iowa (1916), \*N. J. (1923).

Coniothyrium wernsdorffiae Laub., brand canker. Jenkins, Anna E. and  
G. Hamilton Martin. U. S. Dept. Agr. Off. Rec. 5 (25); 3. 1926.

Rosa spp., R. multiflora, R. setigera, R. wichuriana and varieties  
Adelaide Moullé, Aglaia, Aviateur Blériot, Blush Rambler, Caroubier,  
Christine Wright, Coquina, Dawson, Daybreak H. Nois, Dazzling Red,  
Delight, Dr. Huey, Evangeline, Excelsa, Farquhar, Flower of  
Fairfield, Francois Poisson, Freedom, Geisha, Hauff, Hiawatha,  
Lessing, Louis Sauvage, Manda's Triumph, May Queen, Minnehaha,  
Miss G. Messmann, Mosel, Euphrosine, Multiflora grandiflora,  
Paradise, Pink Pearl, Pink Roamer, Furity, Roserie, Rubin,  
Ruby Queen, Seven Sisters, Source d'Or, South Orange Perfection,  
Tausendschön, Victory, Wartburg, Wedding Bells, White Dorothy,  
White Rautenstrauch.



\*Minn. (1916), \*N. Y. (1926), \*Pa. (1915).

Coniothyrium sp., cane blight and canker.

Rosa alba rubrifolia, R. gentiliana, R. hugonis, R. odorata, R. rugosa,  
and varieties Columbia, Crimson Champion, Gunston Hall, J. B.  
Clark, Madam Butterfly, Madam E. Herriot, Paul Richaut, Premier,  
Radiance (Pink and Red), Templar.

\*D. C. (1926), \*Fla. (1927), Ga. (1923), \*Ind. (1926), La. , \*Md.  
(1923), N. Y. (1923), \*N. J. (1927), \*N. C. (1926), \*Ohio (1927),  
\*Pa. (1926), S. C. , \*Tenn. (1927), \*Va. (1923), \*W. Va. (1926).

Corticium stevensii (Noack.) Burt. Burt. E. A. Ann. Missouri Bot. Gard.  
5: 125. 1918.

Rosa sp., Fla. (1925).

Coryneum microstictum Berk. & Br., canker. Sacc. Syll. Fung. 3: 775.

Rosa sp., Ala. (1874), \*Pa. (1924).

Coryneum sp., stem canker.

Rosa spp., Idaho (1915), \*Wash. (1915), \*Va. (1926).

Cucurbitaria rosae Wint. & Sacc. (?) Sacc. Syll. Fung. 2: 319.

Rosa sp., N. Mex. (1916).

Cuscuta indecora Choisy, Heald, F. D. and F. A. Wolf. U.S.D.A.,  
B.P.I. Bull. 226: 112. 1912.

Rosa sp., \*Texas (1909).

C. paradoxa Raf.

Rosa sp., Fla. (1925).

Cylindrocladium scoparium Morgan, crown canker, black leg. Anderson, P. J.  
Massachusetts Agr. Exp. Sta. Bull. 183. 1918.

Rosa spp. and varieties American Beauty, Columbia, Hadley, Hoosier  
Beauty, Killarney, Madam Butterfly, Ophelia, Premier, Russell,  
Schoyer, and many seedlings.

Ga., \*Ind. (1917), \*Iowa (1922), Mass. (1912), Mich. (1917), Mo.  
(1916), N. J. (1926), N. Y. (1917), \*Ohio (1927), \*Pa. (1917).

Cylindrosporium sp.

Rosa sp., Md. (1925).

Cytospora sp.

Rosa sp., and variety Crimson Rambler, \*Pa., (1926), \*Va. (1919),  
Wash. (1926).

Diaporthe oligocarpoides Rehm, Sacc. Syll. 9: 719.

Rosa sp., N. Mex. (1916).

Diaporthe umbrina Jenkins, brown canker. Jenkins, Anna E. Am. Rose Ann.  
1927: 161-182.

## Tea

Dr. Grill  
 Dutchess de Brabant  
 Enfant de Lyon  
 E. Veyrat Hermanos  
 Frances Willard  
 Lady Hillingdon  
 Mme. Berard  
 Mme. Camille  
 Mme. Lambard  
 Marion Brunell  
 Myles Kennedy  
 Safrano  
 William R. Smith  
 White Maman Cochet  
 Winter Gem

## Hybrid Tea

Alexander Hill Gray  
 America  
 Apotheker Georg Hofer  
 Baldwin  
 Bessie Brown  
 Bertram J. Walker  
 Black Prince  
 Cecho-Slavia  
 Chateau de Clos Vougeot  
 Champ Weiland  
 Cl. LaFrance  
 Cl. Killarney  
 Cl. Morning Guillot  
 Cl. My Maryland  
 Cl. Sunburst  
 Cl. Winnie Davis  
 Col. R. S. Williamson  
 Columbia  
 Comte G. de Rochemur  
 Countess of Gosford  
 Defiance  
 Dr. Helferich  
 Dorothy Page-Roberts  
 Dutchess of Wellington  
 Duke of Westminster  
 Escarlata  
 Edel  
 Ellen Willmott  
 Emma Wright  
 Etoile de France  
 Florence Pemberton  
 Francis Scott Key  
 Frau Ida Munch  
 Fraulein Pres. Von Grout

## Hybrid Tea (con.)

Freiberg  
 Gainsborough  
 George C. Waud  
 General-Superior Arnold  
 Janssen  
 Golden Spray  
 Grace Darling  
 Grace Molyneux  
 Grossherzog Friedrich  
 Gruss an Teplitz  
 Gustav Grunerwald  
 Hadley  
 Hawlmark Crimson  
 Henrietta  
 Isabella Sprunt  
 Johannes Frogan  
 John Cook  
 John Davison  
 Kaiserin Auguste Viktoria  
 Killarney  
 Killarney Queen  
 Kootenay  
 La Tosca  
 Lady Alice Stanley  
 Lady Ashtown  
 Lady Pierrie  
 Lady Ursula  
 Laurent Carle  
 Los Angeles  
 Lucien Chauré  
 Mary, Countess of Ilchester  
 Meteor  
 Miss Cynthia Forde  
 Mme. Abel Chatenay  
 Mme. Butterfly  
 Mme. Caroline Testout  
 Mme. Berthe Fontaine  
 Mme. Driout  
 Mme. Hector Leuillot  
 Mme. Jenny Gillemot  
 Mme. Leon Paine  
 Mme. Maurice de Luze  
 Mme. Paul Euler  
 Mme. Segond Weber  
 Mme. Simone Beaumez  
 Mrs. Aaron Ward  
 Mrs. George Gordon  
 Mrs. Hubert Taylor  
 Mrs. Wakefield Christie-Miller  
 Nederland  
 Nerissa

## Hybrid Tea (con.)

Norma  
 Ophelia  
 Pilgrim  
 Radiance  
 Prince de Bulgarie  
 Prince Engelbert Charles d'Arenberg  
 Priscilla  
 Red Columbia  
 Red-letter Day  
 Red Radiance  
 Rev. F. Page-Roberts  
 Rivoire  
 Rubezahl  
 Sensation  
 Sunburst  
 Weddington  
 Wellesley  
 White Killarney

## Hybrid Perpetual

American Beauty  
 Baroness Rothschild  
 Captain Christy  
 Clio  
 Countess of Roseberry  
 Dr. William Gordon  
 Francois Levet  
 Frau Karl Druschki  
 General Jacqueminot  
 Glorie de Chedane-Guinoisseau  
 Glorie Lyonnaise  
 Her Majesty  
 Hugh Dickson  
 J. B. Clark  
 John Hopper  
 John Keynes  
 Mabel Morrison  
 Magna Charta  
 Maharajah  
 Marchioness of Dufferin  
 Marchioness of Londonderry  
 Margaret Dickson  
 Mme. Gabriel Luizet  
 Mrs. John T. Laing  
 Mrs. R. G. Sharman-Crawford  
 Oakmont  
 Paul Neyron  
 President Lincoln  
 Souv. de George Beckwith  
 Vick's Caprice  
 Victor Verdier

## Pernetiana

Souvenir de Claudius Pernet

## Pernetiana (con.)

Soleil d'Or  
 Willowmere

## Bengal or China

Champion of the World  
 Hermosa

## Hybrid Sweet Briar

Catherine Seyton  
 Refulgence

## Dwarf Polyantha

Erna Teschendorff  
 Mme. Norbert Levavasseur  
 Mosella

## Tea Polyantha

Leonie Lamesch

## Multiflora Hybrid

Andreas Hofer  
 Crimson Rambler

## Wichuraiana Hybrid

Bridal Wreath  
 Dr. W. Van Fleet  
 Paul's Scarlet Climber

## Noisette

Mme. Jules Gravereaux  
 Celine Forestier  
 Allister Stella Gray (Golden Rambler)  
 William Allen Richardson

## Noisette Hybrid

Croquette des Alpes  
 Fellenberg  
 Perles des Blanches

## Rose Species

Rosa arvensis sylvestris  
 R. brunoni  
 R. canina  
 R. caudata  
 R. centifolia  
 R. coriifolia  
 R. corymbulosa  
 R. fedtschenkoana  
 R. gentiliana  
 R. glauca  
 R. helenae  
 R. Moschata  
 R. nutkana

## Rose Species (con.)

R. odorata  
R. moschata nastarana  
R. multibracteata  
R. Pisocarpa  
R. pouzini

## Rose Species (con.)

R. rubella  
R. rubiginosa  
R. setigera  
R. soulieana

\*Ala. (1926), \*Conn. (1917), \*Dela. (1921), \*D. C. (1903), \*Fla. (1925), \*Ga. (1917), \*Ky. (1920), \*Md. (1902), \*Mass. (1921), \*Mich. (1925), \*Miss. (1919), \*N. J. (1917), \*N. Y. (1923), \*N. C. (1924), \*Pa. (1922), \*R. I. (1922), \*Texas (1927), \*Va. (1917), \*W. Va. (1904).

Diaporthe sp. (not D. Umbrina Jenkins), blossom blight.

Rosa sp., La. (1924).

Diatrype tristicha De Not. - see Valseutypella tristicha (DeNot.) v. Hoehn.

Dicoccum rosae Bon. - see Diplocarpon rosae Wolf.

Didymella nigrificans Karst. Sacc. Syll. Fung. 9: 668.

Rosa sp., N. Mex. (1913).

D. rauii (Ell. & Ev.) Berl. & Vogl. Sacc. Syll. Fung. 9: 668.

Rosa sp., \*Pa. (1883).

Diplocarpon rosae Wolf, black spot. Massey, L. M. Phytopath. 8: 20-23. 1918. Wolf, F. A. Bot. Gaz. 54: 231. 1912.

Rosa spp.

Reports of its occurrence have been received from all states except Ariz., Nev., Wyo. First report of its occurrence was in 1878 from California.

Diplodia rosae B. & C. Sacc. Syll. Fung. 3: 338.

Rosa sp., R. californica, Calif., \*S. Car. (about 1870).

D. sp.

Rosa sp., R. sericea, R. setigera, Fla. (1923), \*Va. (1926).

Discosia artocreas (Tode) Fr., blossom blight, stem canker. Sacc. Syll. Fung. 3: 653.

Rosa spp., \*La. (1924), \*Miss. (1927), \*Mo. (1926).

Dothidea rosae S. - see Phyllachora rosae (Schw.) Sacc.

Dothiorella sp., blossom blight.

Rosa sp., R. setigera, and variety La Guirlande.

\*La. (1924), \*Va. (1926).

Earlea speciosa (Fr.) Arth., - see Phragmidium speciosum Fr.

Fusarium roseum Link, Sacc. Syll. Fung. 4: 699.  
Rosa sp., S. C. (1906).

Fusarium sp.  
Rosa sp., \*Conn. (1927), \*Ala. (1917), \*Miss. (1927).

Fusicoccum sp.  
Rosa sp., Va. (1925).

Gloeosporium rosae Hals., twig blight. Halsted, B. D. New Jersey  
 Agr. Exp. Sta. Rept. 1892: 280, 1893: 401, 1894: 383.  
Rosa spp., Miss. (1916), N. J. (1892), Ohio (1913), Okla. (1915),  
 \*Pa. (1914), S. C. (1922), Texas (1915).

Gloeosporium sp.  
Rosa spp., and varieties La Guirlande, W. E. Lippincott, Marguerite  
 Dickson, Prince D'Areberg, Radiance, White Killarney.  
 \*D. C., \*Ind. (1927), \*La. (1924), \*Md. (1909), \*Pa. (1915),  
 Va. (1914), W. Va. (1914).

Glomerella cincta (B. & C.) S. & S. Schrenk, H. von, and P. Spaulding.  
 U. S. B.P.I. Bull. 44: 29. 1903.  
Rosa sp., N. J. (1918).

Gymnoconia rosae gymnocarpae Arth., rust. Arthur, J. C. Bot. Gaz. 58:  
 508. 1917.  
Rosa gymnocarpa, Calif. (1912).

Hainesia lythri (Desm.) v. Hohn. - see Pezizella lythri (Desm.) Shear &  
 Dodge.

Hendersonia hypocarpa Fairman. Fairman, C. E. Mycol. 5: 246. 1913.  
Rosa sp. var. Persian Yellow, N. Y. (1910).

Heterodera radicicola (Greef) Muell. - see Caconema radicicola (Greef)  
 Cobb.

Kabatiella sp. - see Polyspora sp.

Kunkelia rosae gymnocarpae (Diet.) Arth. - see Gymnoconia rosae-  
gymnocarpae Arth.

Leptosphaeria coniothyrium (Fckl.) Sacc., cane blight. Sacc. Syll.  
 Fung. 2: 29.

Rosa spp., R. alba rubrifolia, R. rugosa x Victor Hugo, and  
 varieties Golden Emblem, Premier.  
 Ark. (1926), Calif. (1926), Colo. (1922), \*D. C. (1903), \*Ind.  
 (1921), Kans. (1925), \*Md. (1925), \*Mass. (1926), Mich. (1917),  
 Miss. (1923), \*N. J. (1914), N. Y. (1926), N. C. (1915), Ohio  
 (1911), \*Pa. (1913), S. C. (1903), \*Texas (1909), \*Va. (1906),  
 W. Va. (1914).

Leptothyrium rosarum Oke. - see Pezizella lythri (Desm.) Shear & Dodge.

- Lophiostoma auctum Ellis. & Ev. Ellis & Everhart. N. Am. Pyreno. p. 233.  
Rosa sp., N. Y. (about 1890)
- Macrophoma sp.  
Rosa sp., and variety Sunburst, \*La., \*Va. (1921).
- Macrosporium chevianthi (Lib.) Fr. - see Alternaria sp.
- M. sp.  
Rosa sp., \*Okla. (1921), \*Pa. (1924).
- Marsonia rosae Trail - see Diplocarpon rosae Wolf.
- M. rosae Br. & Cav. - " " " "
- Mollisia cinerea (Batsch.) Karst. Sacc. Syll. Fung. 8: 336.  
Rosa sp., \*N. Y.
- Mycosphaerella rosigena Ell. & Ev. - see Sphaerella rosigena Ell. & Ev.
- Myxosporium rosae Eckl., as found in Pa. and W. Va. - see Diaporthe umbrina Jenkins.
- Olpitrichum macrosporium (Farl.) Sumstine. Sumstine, D. R.  
 Mycol. 3: 55. 1911.  
Rosa gentiliana, \*Md. (1923).
- Ozonium omnivorum Shear, root rot. Shear, C. L. Bull. Torr. Bot. Club 34: 305-317. 1907.  
Rosa sp., \*Texas (1915), Ariz. (1927).
- Peristomium sp., in process of publication.  
Rosa sp., Pa. (coll. 1916; det. 1928).
- Peronospora sparsa Berk., downy mildew. Sacc. Syll. Fung. 7: 263.  
Rosa sp., R. californica, and variety Golden Emblem.  
 Calif., \*N. Y. (1892), \*Ohio (1905), \*Pa.
- Pestalozzia bullata B. & Br.  
Rosa sp., S. C.
- P. compacta Sacc. Sacc. Syll. Fung. 3: 798.  
Rosa sp., Fla. (1922).
- P. discosioides Ell. & Ev. Ellis, J. B. and B. M. Everhart. Jour. Myc. 4: 51. 1888.  
Rosa sp., \*Del. (1888), \*Mich. (1915).
- P. foliorum Ell. & Ev. Ellis, J. B. and B. M. Everhart. Fungi Columbiani No. 1552.  
Rosa sp., \*Ala. (1900).

- P. guepini Desm. Sacc. Syll. Fung. 3: 794.  
Rosa variety Devoniensis, \*La. (about 1900).
- P. rosae Westd. Sacc. Syll. Fung. 3: 786. Schwarze, C. A. New Jersey  
 Agr. Exp. Sta. Bull. 313: 114. 1917.  
Rosa sp., and variety Sunburst, N. J. (1918), \*Va. (1927).
- P. suffocata Ell. & Ev. Sacc. Syll. Fung. 10: 485.  
Rosa sp., Pa. (1886).
- Pestalozzia sp.  
Rosa sp., R. odorata, Ind. (1924), Md. (1924), \*Miss. (1927).
- Pezicula rosae Sacc. Brenckle, J. F. Mycol. 9: 276-293. 1917.  
Rosa sp., N. D. (1914).
- Pezizella lythri (Desm.) Shear & Dodge. Shear, C. L. and B. O.  
 Dodge. Mycol. 13: 165. 1921.  
Rosa sp., R. gentiliana, \*Md. (coll. 1927, det. 1928), \*Mo. (coll. 1926, det. 1928), \*N. J. (coll. 1917, det. 1928), S. C. (about 1870).  
R. rugosa, R. setipoda, \*Va.
- Phoma rhodocarpa Sacc., bark blight. Saccardo, P. A. Ann. Mycol. 9: 251. 1911.  
Rosa var. Persian Yellow, N. Y. (1911).
- P. sepincola (Michx.) Sacc. Sacc. Syll. Fung. 3: 77.  
Rosa suffulta, \*Nebr. (1911).
- P. sp. disease of thorns and bark.  
Rosa spp., \*D. C. (1926), \*Ind. (1928), \*Md. (1909), Pa. (1924).
- Phomatospora rosa Rehm. Rehm, H. Ann. Myc. 11: 397. 1913.  
Rosa sp., \*N. D. (1913).
- Phomopsis sp., canker.  
Rosa spp., Teas, Hybrid Teas and Hybrid Perpetuals.  
 \*Ark. (1928), \*Calif. (1926), \*D. C. (1928),  
 \*Ga. (1925), \*Ind. (1928), \*Ky. (1924), \*Md. (1925), \*Mo. (1926),  
 \*N. Y. (1926), \*Pa., \*Va. (1925), \*W. Va. (1928).
- Phragmidium americanum Diet., rust. Arthur, J. C. N. Am. Flora 7, 3: 167. 1912.  
Rosa spp., R. acicularis bourgeanania, R. arkansana, R. blanda,  
R. humilis, R. lucida, R. virginiana.  
 Colo. (1877), Del. (1912), D. C. (1912), Ind. (1912), \*Iowa (1885), Ky. (1912), Me. (1889), Mass. (1912), \*Nebr. (1908), N. J. (1912), N. Y. (1912), \*N. D. (1908), R. I., Vt. (1912), \*W. Va. (1910), \*Wis. (1911).

Phragmidium disciflorum (Tode) James, rust. Arthur, J. C. N. Am. Flora 7, 3: 171. 1912.

Rosa spp., R. acicularis, R. alba, R. blanda, R. damascena, R. eglanteria, R. gallica, R. laxa.

\*Calif. (1889), \*Colo. (1880's), Conn. (1912), Del. (1912), \*Ill. (1881), \*Ind. (1915), \*Iowa (1889), \*Kans. (1891), Me. (1918), \*Md. (1923), \*Mass., Mich. (1912), \*Nebr. (1911), \*N. Y. (1923), \*Pa. (1883), \*Texas (1909), Vt. (1912), \*Va. (1919), W. Va. (1912), Wis. (1914).

P. montivagum Arth., rust. Arthur, J. C. N. Am. Flora 7, 3: 169. 1912.

Rosa spp., R. acicularis bourgeaniana, R. acicularis engelmanni, R. aciculata, R. aciculata crockerell, R. bakeri, R. douglasii, R. engelmanni, R. fendleri, R. grosse-serrata, R. gymnocarpa, R. gymnocarpa pubescens, R. macounii, R. manca, R. maximiliani, R. neomexicana, R. nutkana, R. puberulenta, R. underwoodii, R. woodsi, R. woodsi fendleri.

\*Ariz. (1917), Calif. (1912), \*Colo. (1908), \*Idaho (1917), \*Mont. (1888), Nev., N. Mex., \*N. D. (1917), Oreg., \*S. D. (1912), \*Utah (1909), Wash., \*Wyo. (1911).

P. mucronatum (Pers.) Link. - see P. disciflorum (Tode) James.

P. mucronatum americanum Pk. - see P. americanum Diet.

P. occidentale Arth., rust. Arthur, J. C. N. Am. Flora 7, 3: 166. 1912.

Rosa acicularis engelmanni, \*Colo. (1909).

Phragmidium rosae-acicularis Liro, rust. Arthur, J. C. N. Am. Flora 7, 3: 168. 1912.

Rosa spp., R. acicularis, R. acicularis bourgeaniana, R. acicularis engelmanni, R. engelmanni, R. hemisphaerica, R. heliophila, R. macedougali, R. nutkana, R. nutkana macedougali, R. pisocarpa, R. rugosa, R. suffulta.

\*Colo. (1925), Idaho (1912), \*Mich. (1889), Minn. (1912), \*Mont. (1912), \*N. D. (1912), \*Wis. (1924).

P. rosae arkansanae Diet., rust. Arthur, J. C. N. Am. Flora 7, 3: 170. 1912.

Rosa spp., R. acicularis bourgeaniana, R. acicularis engelmanni, R. blanda, R. engelmanni, R. fendleri, R. heliophila, R. lucida, R. maximiliani, R. pratincola, R. subnuda, R. suffulta, R. woodsi.

\*Calif., \*Colo. (1889), Del., \*Ill. (1889), Iowa (1912), \*Kans. (1893), Miss., \*Mo. (1917), \*Nebr. (1909), N. H., N. Y., \*N. D. (1911), S. D. (1917), Wis., \*Wyo. (1912).

P. rosae-californicae Diet., rust. Arthur, J. C. N. Am. Flora 7, 3: 170. 1912.



Rosa spp., R. californica, R. chrysocarpa, R. gymnocarpa,  
R. gymnocarpa pubescens, R. nutkana, R. pilifera, R. pisocarpa.  
 \*Calif. (1892), D. C., \*Oreg. (1914), \*Wash. (1901).

P. rosae-pimpinellifoliae Diet. - see P. subcorticinum.

P. rosae-setigerae Diet., rust. Arthur, J. C. N. Am. Flora 7, 3: 167.  
 1912.

Rosa spp., R. carolina, R. humilis, R. palustris, R. rubiginosa, R. setigera.  
 Conn., D. C. (1889), Ill. (1912), \*Ind. (1916), \*Kans. (1892),  
 Md. (1912), Miss. (1912), \*Mo. (1917), \*Mont., \*Nebr. (1912),  
 N. H. (1912), \*N. Y. (1904), Ohio, \*Wis. (1906).

Phragmidium speciosum Cke., rust. Sacc. Syll. Fung. 7: 744.

Rosa spp., R. acicularis bourgeaniana, R. arkansana, R. blanda,  
R. carolina, R. foliosa, R. heliophylla, R. humilis, R. lucida,  
R. macounii, R. maximiliani, R. nitida, R. palustris, R. parviflora,  
R. pecosensis, R. pisocarpa, R. rubiginosa, R. rugosa, R. setigera,  
R. suffulta, R. woodsi, R. woodsi fendleri.

\*Ark., \*Calif. (1898), \*Colo. (1906), Conn., Del., \*Idaho (1894),  
 Ill., \*Ind. (1890), \*Iowa (1883), \*Kans. (1883), \*La. (1901),  
 \*Md. (1924), Mass., Minn., \*Miss. (1892), \*Mo. (1884), \*Mont.  
 (1917), \*Nebr. (1889), N. J., \*N. Mex. (1903), \*N. Y. (1892),  
 N. D. (1909), \*Ohio, Pa., \*S. D. (1894), \*Texas (1907), \*Vt.  
 (1894), \*Va. (1922), \*Wash. (1894), \*W. Va. (1889), \*Wis.  
 (1881), \*Wyo. (1917).

P. subcorticinum (Schrank) Wint., rust. Arthur, J. C. N. Am. Flora 7,  
 3: 172. 1912.

Rosa spp., R. acicularis bourgeaniana, R. alba, R. arkansana, R. blanda,  
R. californica, R. eglanteria, R. hemisphaerica, R. humilis,  
R. lucida, R. multifida, R. nutkana, R. pisocarpa, R. rubiginosa,  
R. spinosissima, R. virginiana.

Ala. (1897), \*Calif. (1889), \*Colo. (1887), Conn., \*Idaho (1892),  
 \*Ill. (1881), \*Ind. (1890), \*Iowa (1888), \*Kans. (1888), \*Ky.  
 (1882), \*La. (1901), \*Me. (1903), \*Md. (1891), \*Mass. (1883),  
 \*Mich. (1902), \*Minn. (1891), Miss., \*Mo. (1886), \*Mont. (1884),  
 \*Nebr. (1905), \*Nev. (1891), N. H., \*N. J. (1880), \*N. Y.  
 (1889), \*N. C. (1922), \*N. D. (1884), \*Ohio (1880), \*Oreg.  
 (1885), \*Pa. (1923), R. I., \*S. D. (1896), \*Texas (1900),  
 \*Vt. (1922), \*Va. (1896), \*Wash. (1891), W. Va. (1910),  
 \*Wis. (1887).

Phyllachora rosae (Schw.) Sacc. Sacc. Syll. Fung. 2: 611.

Rosa sp., Calif., R. humilis, Miss. (1895).

Phyllactinia corylea (Pers.) Karst. Salmon, Mon. Erysiphaceae pg. 224.

Rosa spp., R. gymnocarpa, R. pisocarpa, Wash. (1901).

Phyllosticta rosae Desm., leaf spot. Stevens. Fungi which cause plant disease, pg. 487.

Rosa spp., R. acicularis engelmanni, R. setigera.

\*Colo. (1909), Del. (1923), \*Ill. (1919), Ind. (1894), \*N. Y. (1916), \*Iowa (1926).

P. rosicola Mass., leaf spot. Sacc. Syll. Fung. 16: 830.

Rosa spp., N. J. (1913).

F. sp., leaf spot.

Rosa sp., \*Miss. (1926), W. Va. (1918).

Physalospora cydoniae Am. Auct. - see P. malorum (Pk.) Shear

P. malorum (Pk.) Shear, canker. Shear, C. L. and others. Jour. Agr. Res. 28 (6): 596. 1924.

Rosa spp., R. macrantha x R. moyesii, R. setigera, R. sericea, \*Kans. (1925), \*Md. (1926), Texas (1924), \*Va. (1926), \*W. Va. (1926).

P. rhodina (Berk. & Curt.) Oke. Stevens, H. E. Mycol. 18: 212. 1926.

Rosa rubiginosa, N. C. (1926).

Pleosphaerulina corticola f. rosae (Fckl.) Rehm. Brenckle, J. F.

Mycol. 9: 276-293. 1917.

Rosa spp., R. woodsi, N. D. (1913).

Pleospora aculeorum Berl. Sacc. Syll. Fung. 9: 885.

Rosa sp., Wash. (1915).

Polyspora sp., blight.

Rosa spp., R. hugonis, R. saturata, R. sericea, R. spinosissima, R. var. soulieana hyb., R. woodsi and variety Rambler.

\*D. C. (1926), \*Ind. (1927), \*Md. (1924), \*Miss. (1927), \*N. C. (1924), \*N. J. (1927), \*N. Y. (1926), \*Pa. (1926), \*Va. (1924), \*W. Va. (1928).

Ramularia macrospora Fres., root and crown blight. Sacc. Syll. Fung. 4: 211.

Rosa var. Sunburst, \*D. C. (1923).

Ramularia sp., leaf spot.

Rosa sp., Nebr. (1906).

Rhizoctonia sp.

Rosa sp., Texas (1918).

Robillardia sp., in process of publication.

Rosa gentillana, Md. (1927).

Rosellinia rosarum Niessl. Sacc. Syll. Fung. 1: 266.

Rosa sp., N. Mex. (1916).

Sclerotinia sp., blight.

Rosa sp., Miss. (1924).

Sclerotiopsis concava (Desm.) Shear & Dodge - see Pezizella lythri (Desm.) Shear & Dodge.

Septoria rosae Desm., leaf spot. Sacc. Syll. Fung. 3: 485.

Rosa sp., S. C. (1923), Miss. (1923).

Sphaerella rosigena Ell. & Ev. Sacc. Syll. Fung. 9: 643.

Rosa sp., \*La. (1887), N. J. (1918).

S. spinicola Ell. & Ev. Proc. Acad. Sci. Phila., 1890: 231. 1891.

Rosa sp., \*Pa. (1890).

Sphaeronemella rosae Ell. & Ev. Sacc. Syll. Fung. 10: 407.

Rosa spp., R. coreana, R. hugonis, R. hugonis x lucida, R. humilis,  
R. macrophylla, R. mycrus, R. pisifera, R. woodsi.

\*Md. (1923), \*N. J. (1889), \*Va. (1923).

Sphaeropsis malorum Pk. - see Physalospora malorum (Pk.) Shear.

S. rhodocarpa Fairman, cane blight. Fairman, C. E. Mycol. 5: 246. 1913.

Rosa lutea, N. Y. (1911).

S. rosarum Cke. & Ell., cane blight. Sacc. Syll. Fung. 3: 294.

Rosa sp., \*Va. (1915), \*W. Va. (1907).

S. sp., cane blight.

Rosa hugonis, \*Va.

Sphaerotheca humuli (DC.) Burr., powdery mildew. Salmon, Mon.

Erysiphaceae, pg. 45.

Rosa spp., Calif. (1923), Conn. (1902), Mich., Nebr. (1919), Ohio (1909), Texas (1909), Va. (1926), Wash. (1924), Wis. (1914).

S. mors-uvae (Schwein.) Berk. & Curt., powdery mildew. Salmon, Mon.

Erysiphaceae, pg. 70.

Rosa spp., R. sp. var. Crimson Rambler, Mich., \*Oreg. (1926).

S. pannosa (Wallr.) Lev., powdery mildew. Salmon, Mon. Erysiphaceae, p. 65.

Rosa acicularis, R. arcadia, R. arvensis, R. blanda, R. carelica,  
R. centifolia, R. cordata, R. damascena, R. davidi, R. deseglisci,  
R. dubontii, R. gallica, R. glauca, R. laevigata, R. ligustifolia,  
R. montnaga, R. lucida, R. nigrosa, R. palustris, R. paulii,  
R. pendulina, R. rugosa, R. sargentii, R. spinosissima and varieties Babette, Beauty of the  
Prairies, Bride, Bridesmaid, Columbia, Crimson Rambler, Dorothy Perkins, Hebe, Mme. Abel Chatenay, Manan Cochet,

Paul Neyron, Reine Marie Henriette, Radiance, Trubador,  
Ulrich Brunner.

Ala. (1890), Ariz. (1919), Ark. (1914), Calif. (1903), Colo.  
(1906), Conn. (1903), Del. (1908), D. C. (1906), Fla. (1907),  
Ga. (1902), Idaho (1915), Ill. (1881), Ind. (1915), Iowa  
(1906), Kans. (1914), Ky. (1902), La. (1907), Me. (1906), Md.  
(1907), Mass. (1907), Mich. (1903), Minn. (1908), Miss. (1902),  
\*Mo. (1887), Nebr. (1905), Nev. (1915), N. H. (1921), \*N. J.  
(1912), N. Mex. (1927), \*N. Y. (1911), N. C. (1902), N. D.  
(1914), Ohio (1907), Okla. (1915), Oreg. (1909), Pa. (1910),  
S. C. (1905), Tenn. (1910), Texas (1890), Utah (1912), Va.  
(1926), Wash. (1900), W. Va. (1906), Wis. (1927).

Sphaeropsis sp., powdery mildew.

Rosa spp., N. Mex. (1924), Vt. (1924).

Sphaerulina corticola (Fckl.) Rehm. Brenckle, J. F. Mycol. 9:  
276-293. 1917.

Rosa sp., N. D. (1914).

Stereum rameale Schw. Ann. Missouri Bot. Gard. 7: 169. 1920.

Rosa sp., \*N. Y. (1922).

Uromyces rosicola Ell. & Ev., rust. Ellis, J. B. and B. M. Everhart.  
Am. Nat. 31: 427. 1897.

Rosa sp., R. acicularis engelmanni, \*Mont., \*Nebr. (1897).

Valsa ambiens (Pers.) Fr. Sacc. Syll. Fung. 1: 131.

Rosa sp., \*N. D.

Valsa ambiens f. rosae Rehm. Brenckle, J. F. Mycol. 9: 276-293.  
1917.

Rosa suffulta, N. D. (1913).

Valseutypella tristicha (DeNot.) v. Hoehn. von Hoehn, F. Ann. Myc.  
16: 224.

Rosa sp., R. blanda, R. subnuda, Calif., \*N. D. (1913).

Chlorosis, undet.

Rosa spp., Nebr., Texas.

Fasciation

Rosa sp., Conn. (1910).

Mosaic, undet.

Rosa spp., Conn., (1923) Md., (1909) N. J., (1928), Texas (1922).

Oedema

Rosa sp., \*D. C.

Yellows, undet.

Rosa sp., Ind.



